

United States Patent [19]

Sakai et al.

Patent Number: [11]

5,224,478

Date of Patent: [45]

Jul. 6, 1993

[54]	REFLECT	ING-TYPE OXYMETER PROBE
[75]	Inventors:	Hiroshi Sakai, Komaki: Toshihiko

Ogura, Inuyama; Satoshi Kohmura,

Komaki, all of Japan

Colin Electronics Co., Ltd., Aichi, [73] Assignee: Japan

[21] Appl. No.: 932,741 [22] Filed: Aug. 25, 1992

Related U.S. Application Data

[63] Continuation of Ser. No. 615,401, Nov. 19, 1990, aban-

[30]	Foreign Application Priority Data	
Nov. 2:	5, 1989 [JP] Japan	1-136534[U]
[51] In	t. Cl. ⁵	A61B 5/00

00 [52] U.S. Cl. 128/633; 128/666; 356/41 Field of Search 128/633-664-666; 356/41

[56] References Cited

U.S. PATENT DOCUMENTS

724,913 4/1903 Montgomery 6 3,810,460 5/1974 Van Nie 6 4,564,023 1/1986 Hess 7 4,669,488 7/1987 Hess 7 4,685,464 8/1987 Goldberger et al. 7 4,825,872 5/1989 Tan et al. 7 4,825,879 5/1989	128/666 128/785 128/785 128/666
--	--

4,859,057 8/1989 Taylor et al 128. 4,860,768 8/1989 Hon et al	/633
4,880,304 11/1989 Jaeb et al	
4,915,116 4/1990 Hasebe 128	/666
4,971,062 11/1990 Hasebe 128	/666
5,080,098 1/1992 Willett et al 128	/633

FOREIGN PATENT DOCUMENTS

53-26437 8/1978 Japan .

Primary Examiner-Lee S. Cohen Assistant Examiner-Robert L. Nasser, Jr. Attorney, Agent, or Firm-Oliff & Berridge

[57] **ABSTRACT**

A probe for a reflection-type oxymeter which measures a blood oxygen saturation of a subject, the probe including a light emit device emitting at least two lights having different wavelengths toward a body portion of the subject, a light detect device detecting the lights reflected by the body portion of the subject, a housing supporting the light emit and detect devices, and an elastic member secured to the housing, the elastic member including an adhesive portion, the adhesive portion being spaced from the body portion of the subject with the housing contacting the body portion, the adhesive portion being elastically deformed and adhered to the body portion so that the housing is pressed against the body portion with a pressing force within a predetermined range due to an elastic return force of the deformed adhesive portion.

7 Claims, 2 Drawing Sheets

